US ERA ARCHIVE DOCUMENT

Generating CLP Forms from SMCReporter 4.2 Data Files

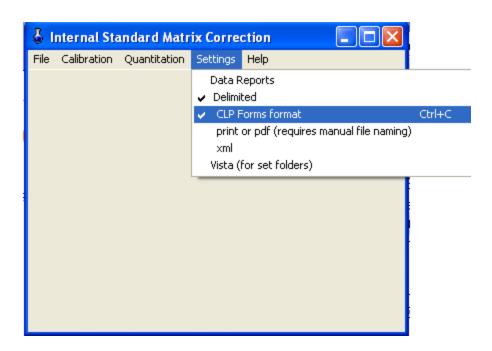
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Demonstration Running CLPforms

- This slide show demonstrates creation of CLP forms generated from SMCReporter 4.2 electronic data files.
- CLPForms software download <u>http://www.epa.gov/nerlesd1/chemistry/vacuum/methods/soft</u> ware.htm
- Download the zip file and install CLPForms by running setup.exe contained in the zip file.
- The example files used in this presentation were created by SMCReporter 4.2 with the CLP format option. (next slide) note: to create the CLP format you also need to have a reporting limit file to identify limits for each analyte. This is created by loading library then selecting "Create/Edit MDL File" and entering sample size and each analyte's limit. Then save MDL file for access during CLP quantitations.



SMCReporter 4.2: Selecting Formatting Required for CLPForms



Selecting the CLP Forms format option provides necessary electronic format and information for CLPForms input.

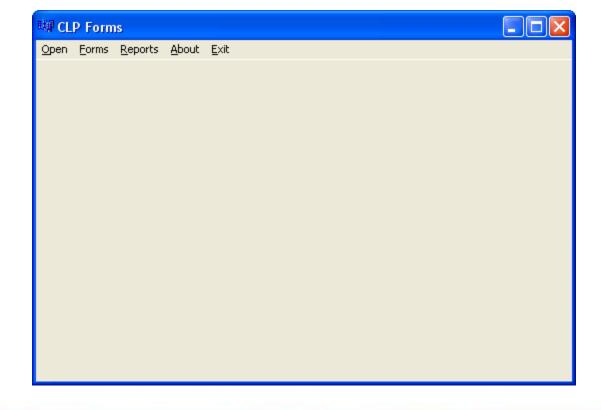


Run CLPForms

The installation of CLPForms 2.0 created a desktop icon.



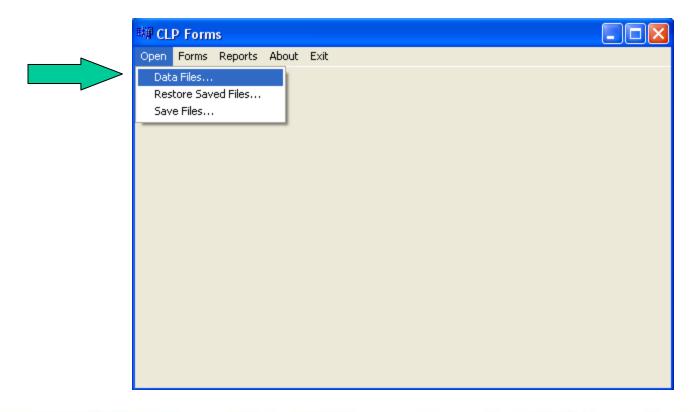
The installation of CLPForms 2.0 created a desktop icon. Left click on CLPForms icon and the following is displayed





CLPForms: Inputting Data Files

- The data files that are required to generate CLP forms must be identified for processing.
- To load these files go to Open then "Data Files"



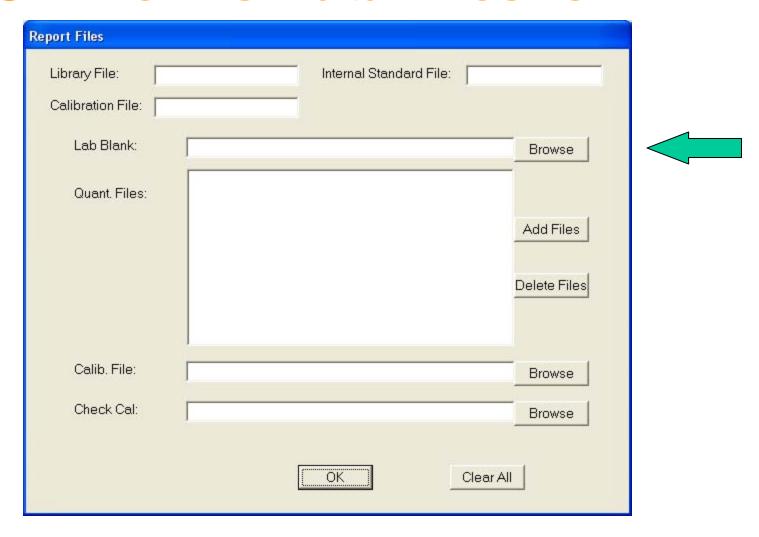


Data Files

- The data files and their pathways used in the demonstration were created with the CLPForms installation.
- The calibration curve was generated on 4/22/2008 and it was titled C042208 5pt. SMCReporter generated a file containing the calibration information as C042208 5pt.cal. The pathway to this file is c:\SMCReporter\CLP\apr 22\.
- The analysis for which CLP forms are going to be generated is a 5g soil identified as GC01and analyzed on 4/23/2008. the file name for the run is t4230810 and is the GC/MS acquisition file name. When SMCReporter quantitated the file using the calibration curve, a result file t4230810_C042208 5pt.prn was generated.
- The calibration check standard run on 4/23/2008 is t4230801. SMCReporter generated a calibration check report file, t4230801.check.
- The laboratory blank run (labeled blankepa01)after the calibration check standard is t4230802. A quantitation report was generated (as for the sample) as t4230802_C042308 5pt.prn.
- The pathway to the sample, blank, and calibration check files is c:\SMCReporter\CLP\apr 23\.



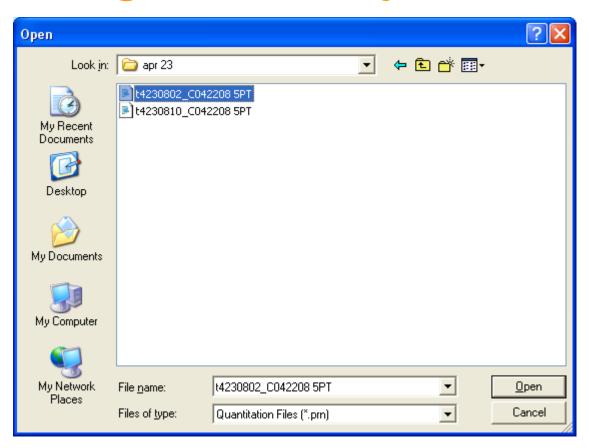
CLPForms Data Files form



The data files are loaded with this form. The files and their pathway are selected with the buttons "Browse" and "Add Files". Select the Browse button to the right of the Lab Blank field.



Adding Laboratory Blank file



The lab blank quantitation file is t4230802_C042208 5pt.prn. Now browse to the file (c:\SMCReporter\CLP\apr 23\t4230802_C042208 5PT) and select (open) it.



Adding Data Files

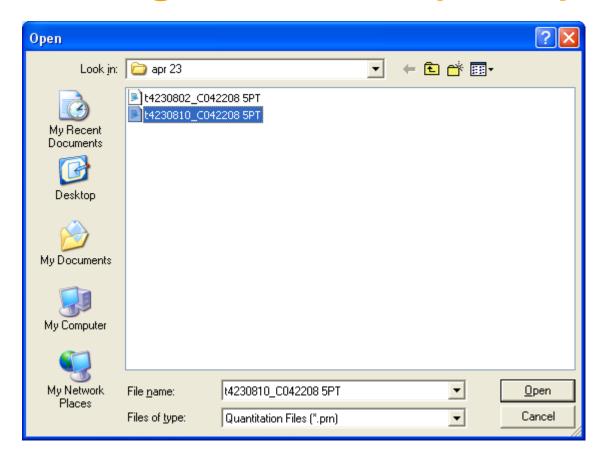
- Upon selection of lab blank (or other data file) the library, internal standard, and calibration file names are taken from the lab blank quantitation result file.
- Next add the analysis file. Select "Add Files".

Report Files			
Library File:	uncert3 v42.txt	Internal Standard File:	uncertistds3.ini
Calibration File:	c042208 5pt.cal		
Lab Blank:	c:\smcreporter\clp\apr 2	23\t4230802_c042208 5pt.pm	Browse
Quant. Files:			
			Add Files
			Delete Files
Calle Fila.	J		
Calib, File:			Browse
Check Cal:			Browse
		ОК	Clear All



Adding Data Files (cont.)





The analysis quantitation result file to be selected is t4230810 23\t4230802_C042208 5PT. As was done for the lab blank, select the quantitation result file c:\SMCReporter\CLP\apr 23\t4230802_C042208 5PT.



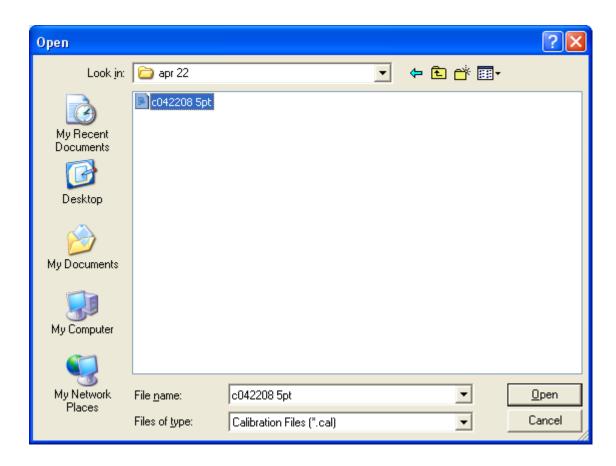
Data File added

 Next select the calibration file. While the calibration file has already been identified the pathway to it must be included.

Report Files				
Library File: Calibration File:	uncert3 v42.txt c042208 5pt.cal	Internal Standard File:	uncertistds3.ini	
Lab Blank:	c:\smcreporter\clp\apr	23\t4230802_c042208 5pt.prn	Browse	
Quant. Files:		23\t4230810_c042208 5pt.prn	Add Files Delete Files	
Calib. File: Check Cal:			Browse	
		ОК	Clear All	



Adding Calibration File data



Select the file c:\SMCReporter\CLP\apr 22\c042208 5PT. CLPForms will display calibration files identified with a *.cal extension.



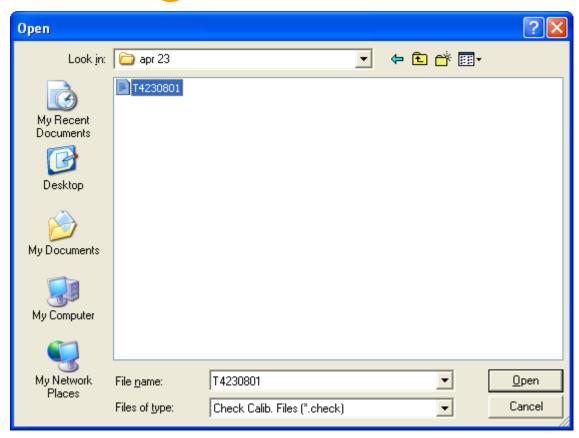
Calibration File Added

Report Files			
	cert3 v42.txt 42208 5pt.cal	Internal Standard File:	uncertistds3.ini
Lab Blank:	c:\smcreporter\clp\apr 2	23\t4230802_c042208 5pt.prn	Browse
Quant. Files:	c:\smcreporter\clp\apr	23\t4230810_c042208 5pt.prn	Add Files Delete Files
Calib. File:	c:\smcreporter\clp\apr 2	22\c042208 5pt.cal	Browse
Check Cal:		ОК	Browse Clear All

Next add the day's calibration check standard



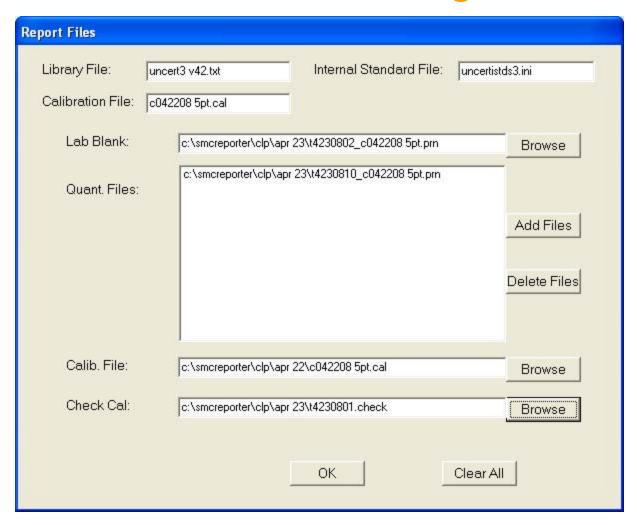
Adding Check Standard



Select the file c:\SMCReporter\CLP\apr 23\T4230801.check



All data files entered to generate reports

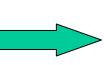


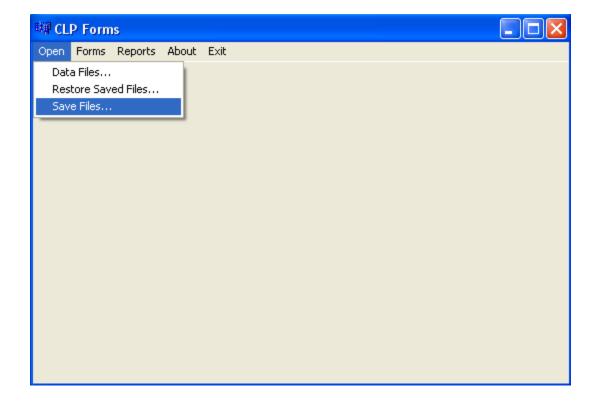
All of the data files are now entered. Select "OK".



Save the Data files

- The work can be saved as a file for future retrieval.
- Select Save Files.

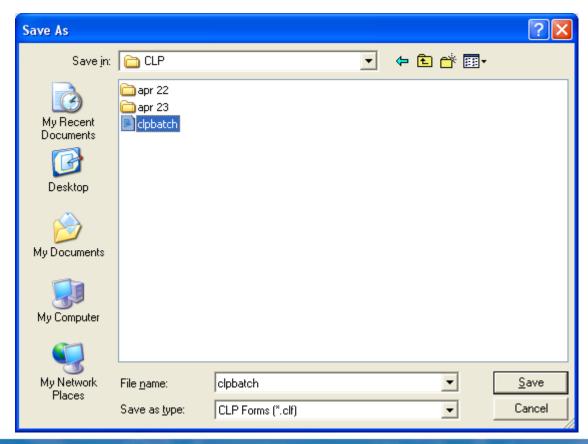






Saving data

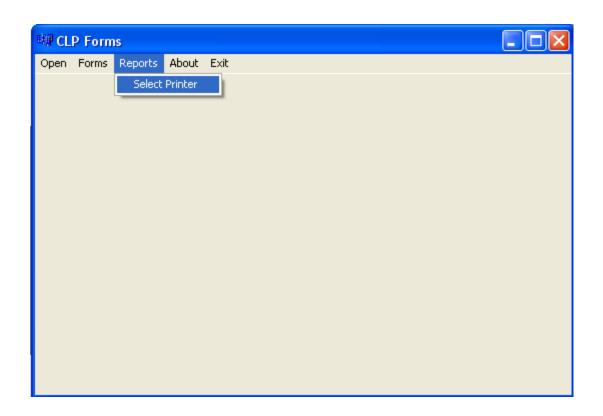
The data can be saved for future retrieval. A batch file containing all of the demonstration data has already been provided (clpbatch 5pt.clf). You can overwrite it or create a new batch file.





Select mode for reporting

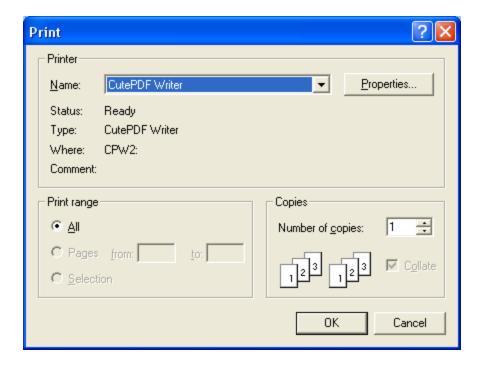
A printer or electronic format printer can be selected for outputting CLP forms





Freeware CutePDF Writer

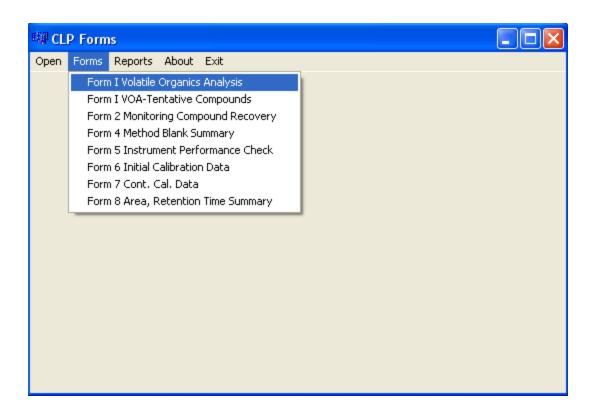
A pdf writer is selected for demonstration





Generating CLP Reports

Select Form 1 to report analyte results





Form 1

The data available from the data files is used to fill in fields. Some fields need be completed manually.

Form 1 Header	
	EPA Sample Number
Quantitation File ID t4230802_c042208 5pt.pm	▼ blank ep01
Lab Name:	Contract:
Lab Code: Case No.:	Mod. Ref No.: SDG No.:
Matrix: (SOIL/SED/WATER) WATER ▼	Lab Sample ID: t4230802 ▼
Sample wt/√ol: 5.00 g/mL mL ▼	Lab File ID: t4230802.raw
Level: (TRACE/LOW/MED) Low ▼	Date Received:/_/:_
% Moisture: not dec. N/A	Date Analyzed: 04/23/2008 09:43
GC Column: ID: (mm) Lei	ngth: (m) Dilution Factor:
Soil Extract Volume: N/A (uL)	Soil Aliquot Volume: N/A (uL)
Purge Volume: (mL)	Concentration Units: (ug/l or ug/kg) ug/L 🔻
Heated Purge: (Y/N) N ▼	Instrument ID: GC/MS
Load Pri	int Form Save EXIT



Complete form after including missing data This previous data was for the lab blank. Now select data file.

Form 1 Header	
	EPA Sample Number
Quantitation File ID t4230802_c042208 5pt.pm	▼ blank ep01 ▼
Lab Name: My Lab	Contract: 001
Lab Code: 007 Case No.: 001	Mod. Ref No.: 0.1 SDG No.: gc01
Matrix: (SOIL/SED/WATER) WATER ▼	Lab Sample ID: t4230802
Sample wt/vol: 5.00 g/mL mL ▼	Lab File ID: t4230802.raw
Level: (TRACE/LOW/MED) LOW 🔻	Date Received: 04/22/2008 10:00
% Moisture: not dec. N/A	Date Analyzed: 04/23/2008 09:43
GC Column: Vocol ID: .25 (mm) Len	ngth: 30 (m) Dilution Factor: 1
Soil Extract Volume: N/A (uL)	Soil Aliquot Volume: N/A (uL)
Purge Volume: 5 (mL)	Concentration Units: (ug/l or ug/kg) ug/L 🔻
Heated Purge: (Y/N) N ▼	Instrument ID: GC/MS
Load Pri	nt Form Save EXIT



Drop-down menu

Select t4230810_c042208 5pt.prn from the Quantitation File ID drop-down menu.

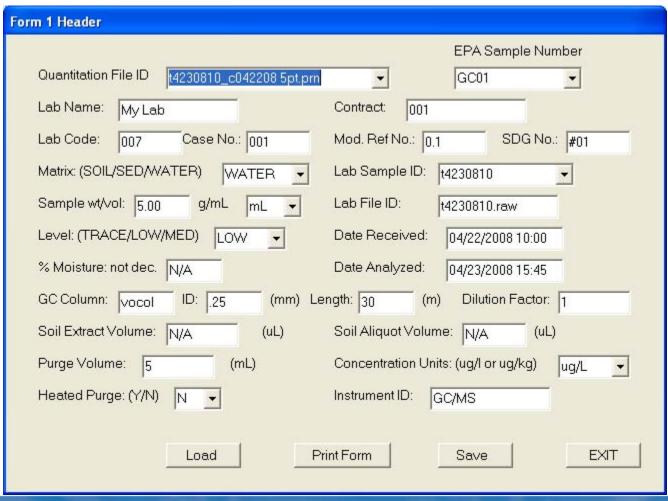
Form 1 Header	
	EPA Sample Number
Quantitation File ID t4230802_c042208 5pt.prn	▼ blank ep01
Lab Name: My Lab t4230802_c042208 5pt.pm t4230810_c042208 5pt.pm	001
	lod. Ref No.: 0.1 SDG No.: gc01
Matrix: (SOIL/SED/WATER) WATER ▼ La	ab Sample ID: t4230802 ▼
Sample wt/vol: 5.00 g/mL mL ▼ La	ab File ID: t4230802.raw
Level: (TRACE/LOW/MED) LOW 🔻 D	ate Received: 04/22/2008 10:00
% Moisture: not dec. N/A D	ate Analyzed: 04/23/2008 09:43
GC Column: Vocol ID: .25 (mm) Lengt	h: 30 (m) Dilution Factor: 1
Soil Extract Volume: N/A (uL) S	oil Aliquot Volume: N/A (uL)
Purge Volume: 5 (mL) C	oncentration Units: (ug/l or ug/kg) ug/L 🔻
Heated Purge: (Y/N) N ▼ In	strument ID: GC/MS
Load Print F	Form Save EXIT



Fields are now automatically filled

Again, sample specific data is taken from the data file and general data entered for blank is automatically entered for all files.

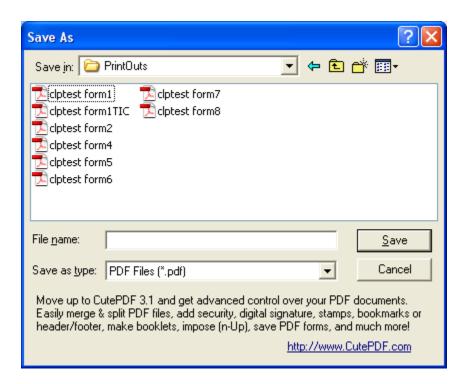
Select "Print Form".





Printing Form 1

The printer that was selected was a pdf writer so there is a prompt for a file name. The CLPForms install created a folder c:\SMCReporter\PrintOuts. The pdf files that are generated with this demonstration are also supplied and are in the PrintOuts folder. You may overwrite the print files or create new files.





Generated Form 1

First Page of Form 1 should look like right.

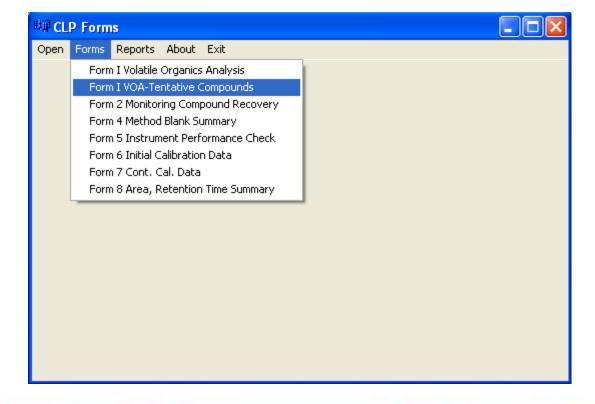
				L	GC0	'1
Lab Name:	My Lab	_	Contract:	0	01	
Lab Code: 007	Case No.:001	Mod, Ref No.:	0.1	SDG No.:	#01	
Matrix: /SOII /SED/W	ATER) WATER		Lab Sample ID:	t	4230810	
	00 (g/mL) mL	-	Lab File ID:			
		-				
	MED) LOW	_	Date Received:	04/2	2/2008 10:00	
% Moisture: not dec.	N/A	_	Date Analyzed:	04/23	7/2008 15:45	
	col ID: .25	(mm)	Dilution Factor:			
	N/A	(Soil Aliquot Volt			(nT.)
			Son Anquot von	iiie		(uL)
Purge Volume:	5	_ (mL)				
CLANO	corporate		CONCENT	RATION		
CAS NO.	COMPOUND		Units: (ug/I		ug/L_	Q
75-71-8	dichlorodifluoromethane			100		U
74-87-3	chloromethane			19		В
75-01-4	vinylchloride			47		
74-83-9	bromomethane			41		
75-00-3	chloroethane			28		
75-69-4	trichlorofluoromethane			44		
60-29-7	diethy1_ether			71		В
76-13-1	1,1,2-trichloro-1,2,2-trifluor	roethane		50		
67-64-1	acetone			1900		EJB
75-35-4	1,1-dichloroethene			43		
74-88-4	iodomethane			100		
107-05-1	ally Ichloride			46		
75-05-8	acetonitrile			350		EJ
79-20-9	methyl_acetate			48		
75-15-0	carbon_disulfide			48		
75-09-2	methylene_chloride			37		
1634-04-4	MTBE			51		
107-13-1	acrylonitrile			100		
156-59-2	trans-1,2-dichloroethene			50		
75-34-3	1,1-dichloroethane			48		
594-20-7	2,2-dichloropropane 50					
109-74-0	propionitrile			120		
78-93-3	2-butanone 340 EJB				EJB	
156-59-2	- '					
126-98-7	methacrylonitrile			100		
~	counts less than raw area cour					



Form 1 TIC

Selecting the Form 1 TIC brings calls the Form1 for a selection of which file to generate TIC form.







Form 1 TIC select file

Select file ID t423810_c042208 5pt.prn. Note all of the information from Form 1 has been applied to this form as well. Select "Enter TICs".

Form 1 TIC Header	
	EPA Sample Number
Quantitation File ID t4230810_c042208 5pt.pm	▼ GC01 ▼
Lab Name: My Lab	Contract: 001
Lab Code: 007 Case No.: 001	Mod. Ref No.: 0.1 SDG No.: #01
Matrix: (SOIL/SED/WATER) WATER ▼	Lab Sample ID: t4230810 ▼
Sample wt/vol: 5.00 g/mL mL ▼	Lab File ID: t4230810.raw
Level: (TRACE/LOW/MED) LOW 🔻	Date Received: 04/22/2008 10:00
% Moisture: not dec. N/A	Date Analyzed: 04/23/2008 15:45
GC Column: Vocol ID: 25 (mm) Ler	ngth: 30 (m) Dilution Factor: 1
Soil Extract Volume: N/A (uL)	Soil Aliquot Volume: N/A (uL)
Purge Volume: 5 (mL)	Concentration Units: (ug/l or ug/kg) ug/L 🔻
Heated Purge: (Y/N) N ▼	Instrument ID: GC/MS
Enter TICs Load Pri	nt Form Save EXIT





Enter TIC data

- This form takes information manually to complete Form 1 TIC.
- Enter information as presented in following slide.

tatively Identified Com	vely Identified Compound Input				
		EPA Sample N	Vo.: GC01		
CAS NUMBER	COMPOUND NAME	RET.TIME	EST.CONC.	Q	
				•	
Add Row	Delete Row	ОК		Cancel	



TIC input

Enter the information for a single compound, an unknown hydrocarbon as below.

Identified Com	pound Input	EPA Sample N	√o.: GC01		
CAS NUMBER	COMPOUND NAME	RET.TIME	EST.CONC.	Q	<u>^</u>
NA	hydrocarbon	10.00	50	Q	
				-	
					~
Add Row	Delete Row	ОК		Cance	

After entering data select "OK". You will be returned to the previous form.



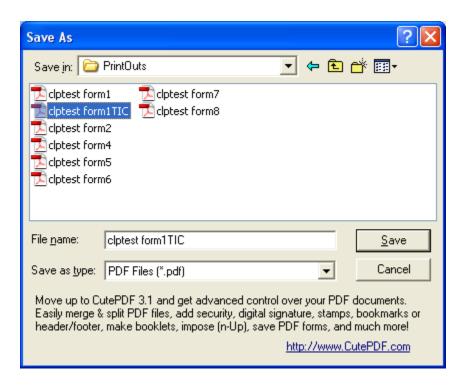
Printing Form 1 TICs

Form 1 TIC Header	
	EPA Sample Number
Quantitation File ID t4230810_c042208 5pt.pm	▼ GC01 ▼
Lab Name: My Lab	Contract: 001
Lab Code: 007 Case No.: 001	Mod. Ref No.: 0.1 SDG No.: #01
Matrix: (SOIL/SED/WATER) WATER ▼	Lab Sample ID: t4230810
Sample wt/√ol: 5.00 g/mL mL ▼	Lab File ID: t4230810.raw
Level: (TRACE/LOW/MED) LOW ▼	Date Received: 04/22/2008 10:00
% Moisture: not dec. N/A	Date Analyzed: 04/23/2008 15:45
GC Column: Vocol ID: .25 (mm) Le	ngth: 30 (m) Dilution Factor: 1
Soil Extract Volume: N/A (uL)	Soil Aliquot Volume: N/A (uL)
Purge Volume: 5 (mL)	Concentration Units: (ug/l or ug/kg) ug/L 🔻
Heated Purge: (Y/N) N ▼	Instrument ID: GC/MS
Enter TICs Load Pr	int Form Save EXIT

Now select "Print Form" to print Form 1 TICs.



Printing Form 1 TICs



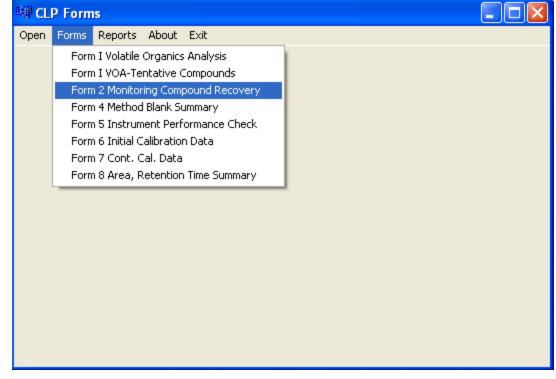
The TIC form is printed. All the forms will be printed as the Form 1 (and TIC) forms.



Form 2

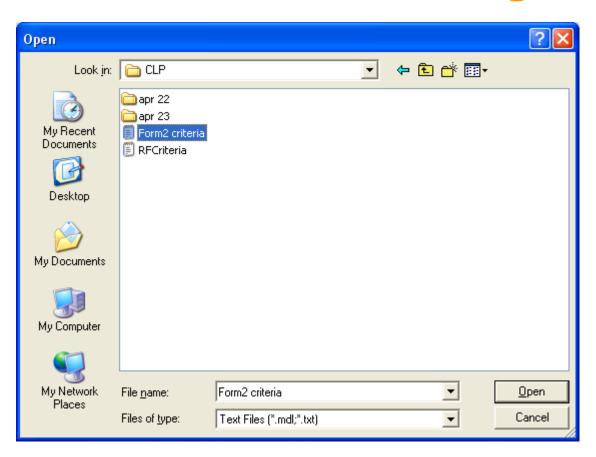
Select Form 2 to print







Form 2: Get file containing criteria.



This form requires input of limits for monitoring compound recoveries. This information is contained in a text file, Form2 criteria.txt. Other limits can be generated for use by copying the file and making changes (limits or even the monitoring compounds).



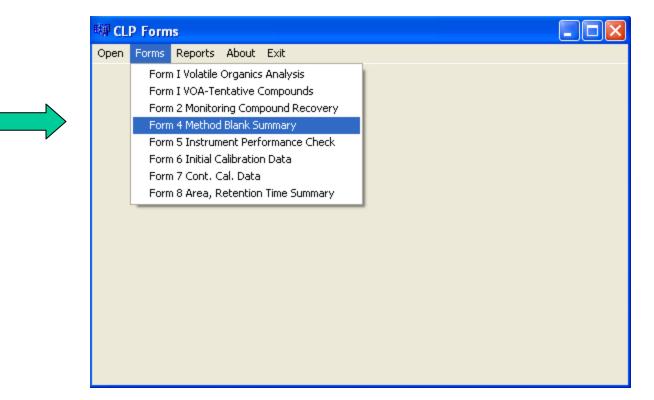
Monitoring Compounds and Limits

- The range file is a text file shown below. The number in upper left is for how many monitoring compounds. All surrogates will be listed in Form 2 but only the surrogates identified in the Range file will have criteria.
- The first two columns of numbers are the low and high range limits for water. The next two columns are for soil. The last two are for oil.
- This file can be changed to match new criteria.

```
🚄 Form2 criteria - Notepad
File Edit Format View Help
Recovery Ranges
methylenechloride-d2;
benzene-d6;
                                  75;125;75;125;75;125
1,2-dichloropropane-d6;
                                  75;125;75;125;75;125
1,1,2-trichloroethane-d3;
                                  65;135;50;150;75;125
4-bromofluorobenzene:
nitromethane-13c;
ethylacetate-13c;
                                  65;135;65;135;75;125
pyridine-d5;
                                  35;175;35;175;75;125
decafluorobiphenyl;
                                  50:175:35:175:50:150
nitrobenzene-d5:
                                  35;150;25;175;50;135
acetophenone-d5;
                                  35;150;25;175;50;135
1,2,4-trichlorobenzene-d3;
                                  75;125;65;150;75;125
```



Select Form 4 and a form will appear requesting comment information





Form 4 comments

Enter comments here when needed

Method Blank Sumn	nary Input Fields		
Comments:	blank for clptest		
	ou 1	1	
	OK	Cancel	



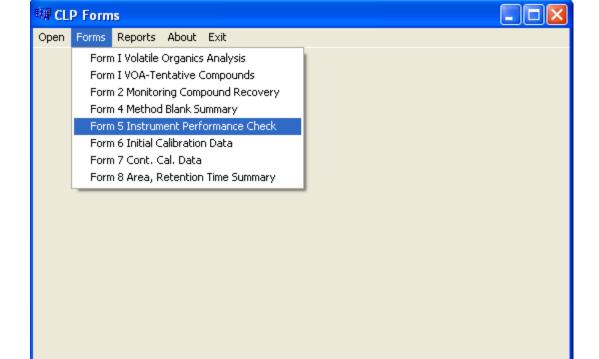
FORM 4

The generated form should look like this

Data Report					M IV VOA-1 D BLANK SUMMAR	Y		PA SAMPLE N
Lab Code:							I	
Lab File ID:								
Instrument ID: GCMS				Mod				
Matrix (SOIL/SEDWATER) WATER Date Analyzed: 04423/2008 Level: (TRACE/LOW/MED) LOW Time Analyzed: 0543 GC Column: vocol ID: .25 (mm) Heated Purge: (Y/N) N FPA				_	Lab Sample	ID: _	t4230	0802
Level: (TRACE/LOW/MED) LOW Time Analyzed: 09-43	Instrument ID:	GG	7MS	_				
Level: (TRACE/LOW/MED) LOW Time Analyzed: 09-43	Matrix: (SOIL/	SED/WATER) _	WATER	_	Date Analy	zed: _	04/23	/2008
Second S	Level: (TRACI	E/LOW/MED)	LOW	_	Time Analy	zed: _	09:	43
SAMPLE NO. SAMPLE ID. FILE ID. ANALYZED	GC Column:	vocol	ID:25	_ (mn				
SAMPLE NO. SAMPLE ID. FILE ID. ANALYZED		EPA	LAB		LAB	1	TIME	7
3 4 5 6 6 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		SAMPLE NO.	SAMPLE		FILE ID.	A	NALYZED	1
4		GC01	t4230810		t4230810.raw	04/23	/2008 15:45	-
6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4							
7 8 9 9 10 10 11 1 12 13 14 14 15 15 16 16 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19								
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9								-
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 COMMENTS: <u>Mank for diplests</u>	8							
11 12 13 14 15 16 17 18 19 20 21 21 22 23 3 24 25 26 27 28 29 30 31 COMMENTS: blank for cipiest								-
13 14 15 16 17 18 19 20 21 21 22 23 24 25 26 27 28 29 30 31 COMMENTS: blank for cipiest								-
14 15 16 17 18 19 20 21 22 23 34 425 26 27 28 29 30 31 COMMENTS: blank for closes								
15 16 17 18 19 19 19 19 19 19 19								-
17 18 19 20 21 21 22 23 24 25 26 27 28 29 30 30 31 COMMENTS: blank for cipiest								_
18								
19								
21	19							
22 2 3 4 2 4 2 5 5 6 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9						+		-
24 25 26 27 28 29 30 31 COMMENTS: blank for cipiest								
25								
26 27 28 29 30 31 COMMENTS: blank for cipiest						+		+
28 29 30 31 COMMENTS: <u>blank for cipiest</u>	26							
29 30 31 COMMENTS: <u>blank for ciptest</u>								-
30 31 COMMENTS: blank for cipiest						1		-
COMMENTS: blank for clptest	30							
* Sample time is outside acceptance criteria	COMMENTS:	blank for cly	otest					
	* Sample time	is outside accepta	nce criteria					



Select Form 5 and information will be requested to complete the form.





Form 5 data entry

Enter information to complete form as shown in next slide.

Instrument P	nstrument Performance Check				
	Instrument Tune Ef	PA Sample N	lo:		
Instrum	ent ID: GC/MS	BFB Injection	on Date:/_/		
	100000				
Lab File	e ID:	BFB Injection	on Time: J—:—		
m/e	ION ABUNDANCE CRITERIA		% RELATIVE ABUNDANCE		
50	15.0 - 40.0% of mass 95				
75	30.0 - 80.0% of mass 95				
95	Base peak, 100% relative abundanc	е			
96	5.0 - 9.0% of mass 95				
173	Less than 2.0% of mass 174				
174	50.0 - 120.0% of mass 95				
175	5.0 - 9.0% of mass 174				
176	95.0 - 101.0% of mass 174				
177	5.0 - 9.0% of mass 176				
,					
	OV.	·			
	OK	<u>C</u>	ancel		



Form 5 Printing

After entering data select "OK" to print.

Instrument P	nstrument Performance Check					
	Instrument Tune EPA Sample N	No: std001				
Instrum	ent ID: GC/MS BFB Inject	ion Date: 04/23/2008				
Lab File	e ID: t4230801 BFB Inject	ion Time: 08:52				
m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE				
50	15.0 - 40.0% of mass 95	20				
75	30.0 - 80.0% of mass 95	50				
95	Base peak, 100% relative abundance	100				
96	5.0 - 9.0% of mass 95	7				
173	Less than 2.0% of mass 174	1				
174	50.0 - 120.0% of mass 95	90				
175	5.0 - 9.0% of mass 174	7				
176	95.0 - 101.0% of mass 174	96				
177	5.0 - 9.0% of mass 176	7				
	ОК	Cancel				



Generated form should look like this

5A - FORM V VOA-1 VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

EFA SAMPLE NO.	
std001	

Lab Name:		t4230802		_	Contract: _		001	
Lab Code: _	007	Case No,:	001	Mod, Ref No,:	0,1	SDG No.:	gc01	
Lab File ID:		t4230801		_	BFB Injecti	on Date:	04/23/2008	
Instrument ID):	GC/MS		_	BFB Injecti	on Time:	08:52	
GC Column:	vocol	ID.	.25	(mm)				

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20
75	30.0 - 80.0% of mass 95	50
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2,0% of mass 174	(1)1
174	50.0 - 120% of mass 95	90
175	5.0 - 9.0% of mass 174	(7)1
176	95 - 101% of mass 174	(96)1
177	5,0 - 9,0% of mass 176	(7)2

1 - Value is %mass 174

2 - Value is %mass 176

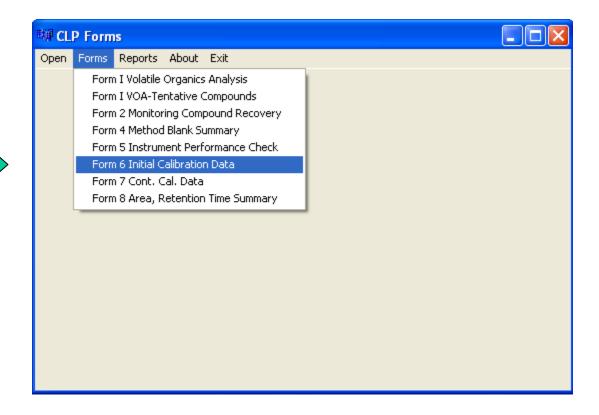
	EPA SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED
1	blank ep01	t4230802	t4230802, raw	04/23/2008	09:43
2	GC01	t4230810	t4230810.raw	04/23/2008	15:45
3	GC01	14230010	142,50610,1aw	04/23/2006	13.43
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

^{*} Value is outside acceptance criteria

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Select Form 6. You will be requested to verify file selection.





The fields should be automatically filled but use the browse buttons to locate files if necessary.

Select "OK" to generate form.

Initial Calibration Data			
Calibration Date/Time of 1 Calibration Date/Time of I		0.420220000.1	
Calibration Lab File IDs:	1	t4220808.raw	Browse
(Do Not Include Path)	2	t4220805.raw	Browse
	3	t4220804.raw	Browse
	4	t4220803.raw	Browse
	5	t4220802.raw	Browse
0	K	Cancel	



Generated form should look like this (first page)

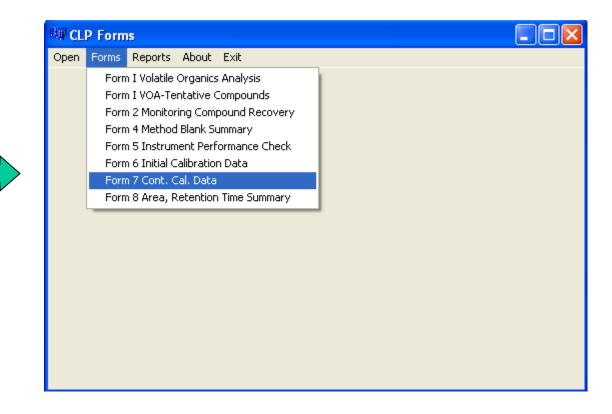
6A - FORM VI VOA-1 VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: My Lab			Contra	ict:		001	
Lab Code: 007 Case No.: 0	001 1	Mod. Ref N	o.:0	.1	SDG No.:	gc	01
Instrument ID: GC/MS		C	alibration	Date(s): _	04/22/2008	8 04	4/22/2008
				Time(s):			15:51
Purge Volume: 5							
GC Column: vocol ID:			Lenoth:	30	(m)		
					()		
LAB FILE ID: R	F 500 =	t422080	8.raw	RF 50) =	t4220805.i	aw
RF_25 =t4220804.raw R	F 15 =	t422080	3.raw	RF 5	_ =	t4220802.i	aw
COMPOUND	RF 500	RF 50	RF 25	RF 15	RF 5	RF	%RSD
diethyl_ether-d10	1433	1495	1487	1525	1559	1500	2.80
acetone-13c	1067	1121	1066	1072	1102	1086	2.03
methylene_chloride-d2	2786	2440	2315	_	2312	2443	7.27
nitromethane-13c	1477	1544	1529	1437	1471	1492	2.64
hexafluorobenzene	4091	4317	4224	4184	4158	4195	1.78
tetrahydrofuran-d8	2264	2133	2205	2201	2099	2180	2.67
ethylacetate-13c	1046	1076	1073	1077	1054	1065	1.20
pentafluorobenzene	5622	5834	57 68	5859	5724	5761	1.47
benzene-d6	17022	16914	17599	17595	17406	17307	1.66
1,2-dichloroethane-d4	2920	2892	2858	2866	2856	2878	0.85
fluorobenzene	17109	17728	17663	17974	17494	17594	1.63
1,4-difluorobenzene	14951	15652	15341	15365	14941	15250	1.78
1,2-dichloropropane-d6	7929	8300	8005	8023	7978	8047	1.62
1,4-dioxane-d8	781	77.2	775	77.6	771	775	0.45
toluene-d8	16684	16475	16704	16418	16481	16552	0.71
pyridine-d5	438	380	382	334	259	359	16.65
1,1,2-trichloroethane-d3	6185	6032	6180	6210	5938	6109	1.74
1,2-dibromoethane-d4	4434	4307	4314	4208	4140	4281	2.35
chlorobenzene-d5	6668	6934	6809	6987	6836	6847	1.61
o-xylene-d10	15467	14831	15136	14753	15154	15068	1.70
4-bromofluorobenzene	3879	3908	3904	3890	3911	3898	0.31
bromobenzene-d5	4085	4185	4153	4227	4043	4139	1.61
1,2-dichlorobenzene-d4	5002	4971	4997	4992	4924	4977	0.57
decafluorobiphenyl	448	443	527	456	577	490	10.82
nitrobenzene-d5	5476	4716	5291	4581	4720	4957	7.20
acetophenone-d5	1421	1214	1492	1250	1308	1337	7.82
1,2,4-trichlorobenzene-d3	5901	5589	5398	5200	5260	5470	4.64

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Select Form 7. You will be prompted for some additional information





Form 7 Data Entry

Much of this data should be automatically completed. The response factor criteria file must be selected. Select "Browse" to find the criteria file, rfcriteria.txt (its in c:\SMCReporter\CLP folder). Next select "OK" to print file.

Continuing Calibration Data Input	
Lab File ID: t4230801.raw Browse RRF Criteria File: Browse EPA Sample No. (VSTD#####):	
Instrument ID: GC/MS Cont. Calibration Date/Time: 04/23/2008 08:52	
Initial Calibration Date/Times: (First Standard) O4/22/2008 11:20 Initial Calibration Date/Times: (Last Standard) 04/22/2008 15:51	
OK Cancel	



Response Factor Criteria File

File is simple text file. Compounds listed are used to verify continuing calibration curve.

First number is for minimum response factor (cts/ng) second number is limit for deviation from calibration (as percent).

```
RFCriteria - Notepad
File Edit Format View Help
dichlorodifluoromethane ;0.010;±40.0
                            ; 0.010; ±40.0
chloromethane
vinyl chloride
                             0.100; ±25.0
bromomethane
                            ; 0.100; ±25.0
                             0.010;±40.0
trichlorofluoromethane
                            ; 0.010; ±40.0
1,1-dichloroethene
                             0.100; ±25.0
1,1,2-trichloro-1,2,2-trifluoroethane
                                               ; 0.010; ±40.0
                            ;0.010;±40.0
carbon disulfide methyl acetate
                            ; 0.010; ±40.0
                            ; 0.010; ±40.0
methylene chloride
                            ; 0.010; ±40.0
trans-1,2-dichloroethene ;0.010;±40.0
methyl tert-butyl ether ;0.010;±40.0
1,1-dichloroethane ;0.200;±25.0
cis-1,2-dichloroethene
                            ; 0.010; ±40.0
2-but anone
                             0.010;±40.0
bromochloromethane
                            :0.050;±25.0
chloroform
                             :0.200:±25.0
1.1.1-trichloroethane
                            :0.100; ±25.0
cyclohexane
                             : 0.010: ±40.0
carbon tetrachloride
                             0.100; ±25.0
benzene
                            ; 0.400; ±25.0
1,2-dichloroethane
                            ; 0.100; ±25.0
1,4-dioxane
                             :0.005;±50.0
trichloroethene
                             : 0.300: ±25.0
methylcyclohexane
                            : 0. 010: +40. 0
1,2-dichloropropane
                             ; 0.010; ±40.0
bromodichloromethane
                            ; 0.200; ±25.0
cis-1,3-dichloropropene
4-methyl-2-pentanone
                            ; 0.200; ±25.0
                            ; 0.010; ±40.0
toluene
                             0.400; ±25.0
trans-1,3-dichloropropene
                            ne ;0.100;±25.0
;0.100;±25.0
1,1,2-trichloroethane
                             0.100; ±25.0
tetrachloroethene
2-hexanone
                             0.010; ±40.0
dibromochloromethane
                            ; 0.100; ±25.0
1,2-dibromoethane
                             0.010;±40.0
chlorobenzene
                             : 0.500; ±25.0
ethylbenzene
m,p-xylene
                             :0.300:±25.0
o-xylene
                            ; 0.300; ±25.0
styrene
                             : 0.300: ±25.0
bromoform
                            ; 0.050; ±25.0
isopropylbenzene ;(
1,1,2,2-tetrachloroethane
                            ; 0.010; ±40.0
                            ; 0.600; ±25.0
; 0.600; ±25.0
; 0.500; ±25.0
1,3-dichlorobenzene
1,4-dichlorobenzene
1,2-dichlorobenzene
                            ; 0.400; ±25.0
1,2-dibromo-3-chloropropane
1,2,4-trichlorobenzene ;0.200;±25.0
1,2,3-trichlorobenzene ;0.200;±25.0
vinyl chloride-d3
                            :0.010:+25.0
chloroethane-d5
                             ; 0.010; ±40.0
1,1-dichloroethene-d2
                            ;0.010;±25.0
 2-butanone-d5
                            ; 0.010; ±40.0
chloroform-d
                             0.010;±25.0
1,2-dichloroethane-d4
                            :0.010; ±25.0
benzene-d6
                             0.010; ±25.0
1,2-dichloropropane-d6
                            ;0.010;±40.0
toluene-d8
                            ; 0.010; ±25.0
trans-1,3-dichloropropene-d4
 2-hexanone-d5
                            ; 0.010; ±40.0
1,4-dioxane-d8
                            ;0.005;±50.0
1,1,2,2-tetrachloroethane-d2
                                     ; 0.010; ±25.0
1,2-dichlorobenzene-d4 ;0.010;±25.0
```



Type in VSTD001 for EPA Sample No. and then select "OK"

Continuing Calibration Data Input	
Lab File ID: t4230801.raw Browse RRF Criteria File: rfcriteria.txt Browse EPA Sample No. (VSTD#####): VSTD001	J
Instrument ID: GC/MS	
Cont. Calibration Date/Time: 04/23/2008 08:52	
Initial Calibration Date/Times: (First Standard) 04/22/2008 11:20	
Initial Calibration Date/Times: (Last Standard) 04/22/2008 15:51	
OK Cancel	



Generated report should look like this for page 1

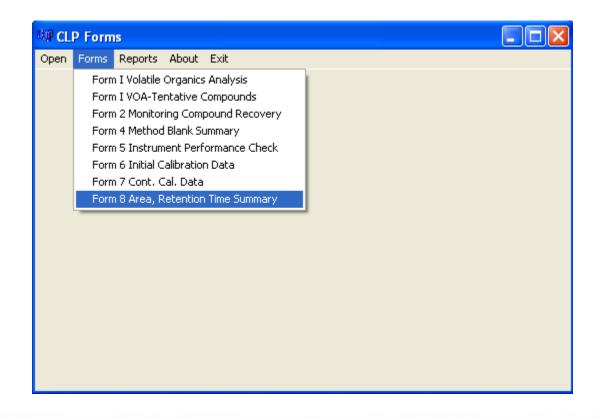
7A - FORM VII VOA-1 VOLATILE CONTINUING CALIBRATION DATA

Lab Name: My Lab		Contract:		001		
Lab Code:007 Case No.:001	Mod. Ref No.:	0.1	SDGN	ło.:	gc01	
Instrument ID: GC/MS	Calib	oration Date:	04/23/2008	Time:	08:52	
Lab File ID: t4230801.raw		Calib, Date(s			04/22/2008	
EPA Sample No. (VSTD#####): VSTD0		Calib, Time(s			15:51	
Heated Purge: (Y/N) N GC Colur						
-		ID:	(11111)	Lengui: _	(III)	
Purge Volume:5	(ml)					
			MIN	ı		
COMPOUND	RF	RF_50_	RF	%D	MAX %D	
diethyl_ether-d10	1500	1587		5,8		
acetone-13c	1086	1130		4,1		
methylene_chloride-d2	2443	2361		-3,3		
nitromethane-13c	1492	1465		-1.8		
hexafluorobenzene	4195			2.7		
tetrahydrofuran-d8	2180	2031		-6,8		
ethylacetate-13c	1065			-1,8		
pentafluorobenzene	5762			3,3		
benzene-d6	17307		0,010	-0,1		
1,2-dichloroethane-d4	2878		0.010	-7,5	±25.0	
fluorobenzene	17594			1.1		
1,4-difluorobenzene	15250	15323		0.5		
1,2-dichloropropane-d6	8047		0,010			
1,4-diox ane-d8	775	770	0,005	_		
toluene-d8	16552	16500	0.010	-0,3	±25.0	
pyridine-d5	359	108		-70.0		
1,1,2-trichloroethane-d3	6109	5636		-7.7		
1,2-dibromoethane-d4	4281	4079		-4.7		
chlorobenzene-d5	6847			-1,0		
o-xylene-d10	15068	15254		1,2		
4-bromofluorobenzene	3898	4002		2.7		
bromobenzene-d5	4138	4146		0,2		
1,2-dichlorobenzene-d4	4977	4958	0,010	-0.4		
decafluorobiphenyl	490	633		29.2		
nitrobenzene-d5	4957	4335		-12.5		
acetophenone-d5	1337	1099		-17.8		
1.0.4 4-1-111	5.470	5100		/ 7	1	

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Select Form 8





You will be prompted for any missing or inaccurate data. If correct, select "OK" to generate report.

Area and Retention Time Summary Inputs									
EPA Sample No. (VSTD#####): VSTD001									
Lab File ID (Standard): t4230801.raw	Browse								
Date Time Analyzed: 04/23/2008 08:52									
Initial Calibration Dates 04/22/2008 04/22/2008									
OK Cancel									



The generated report should look like this.

8A - FORM VIII VOA VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name:	My Lao		_	Contract:	001	
Lab Code:007	Case No.:	001	Mod, Ref No.:	0.1	SDG No.:	gc01
GC Column:vo	col ID: _	.25	(mm)	Init, Calib, Date(s	s): <u>04/22/2008</u>	04/22/2008
EPA Sample No. (VST				Date Analyzed:		
Lab File ID (Standard)			Time Analyzed:			
Instrument ID:				Heated Purge: (Y		
	IS1		IS2		IS3	
	AREA #	RT	# AREA	# RT #		RT #
12 HOUR STD	2143011	13.92	4944239	8,73	1629447	20,00
UPPER LIMIT	4286022	14.42	9888478	9.23	3258894	20,50
LOWER LIMIT	1071506	13,42	2472120	8,23	814724	19.50
EPA SAMPLE NO.						
1 blank ep01	2325475	13.92	5278917	8,73	1676887	20,00
2 GC01	2568393	13.92	5600077	8,73	1731146	20,00
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Chlorobenzene-d5 IS2 = 1,4-Difluorobenzene

IS3 = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) of internal standard area AREA LOWER LIMIT = 50% (Low-Medium Volatiles) of internal standard area RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) minutes of internal standard RT RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

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Summary

- CLPForms requires data files generated from SMCReporter 4.2.
- Forms can be generated as pdf or printed depending on user-selected printer.
- Forms can be changed to meet changing criteria and analyte lists.

